



# PARATECH

®

Made in the USA and Used Worldwide.

# Timeline

|  |  |   |  |
|--|--|---|--|
|    | <b>1962</b> WORLD'S FAMOUS PRY AXE INTRODUCED  |    | <b>2004</b> UNITED KINGDOM STANDARDIZES ON PARATECH RESCUE STRUTS FOR THEIR COLLAPSE AND US&R OPERATIONS                     |
|    | <b>1965</b> THE HOOLIGAN TOOL, THE WORLD'S FIRST PRODUCTION "HALLIGAN" TYPE FORCIBLE TOOL IS INTRODUCED  |    | <b>2005</b> THE SHORING HAMMER IS INTRODUCED AND USED THROUGHOUT NEW ORLEANS IN THE WAKE OF HURRICANE KATRINA                |
|    | <b>1976</b> MAXIFORCE® AIR LIFTING BAGS INTRODUCED TO THE UNITED STATES FIRE RESCUE SERVICE  |    | <b>2006</b> THE SMT™ (SPECIAL MISSION TENDER) IS INTRODUCED FOR QUICK AND EASY DEPLOYMENT AND PURCHASE OF PARATECH EQUIPMENT |
|    | <b>1979</b> PARATECH BECOMES THE FIRST U.S. MANUFACTURER OF A MOLDED, HIGH PRESSURE AIR LIFTING BAG  |    | <b>2007</b> THE WALER SYSTEM IS DEVELOPED  |
|    | <b>1981</b> THE P-10 TRUCK MADE BY PARATECH FOR THE U.S.A. AIR FORCE STATIONED IN SOUTH KOREA  |    | <b>2007</b> SINGAPORE CIVIL DEFENSE RESPONDS TO CHINA EARTHQUAKE WITH PARATECH EQUIPMENT                                     |
|    | <b>1983</b> PARATECH INTRODUCES THE WORLD'S FIRST KEVLAR® REINFORCED AIR LIFTING BAGS UNDER ITS MAXIFORCE® TRADEMARK                                       |    | <b>2008</b> THE MULTI BASE IS DESIGNED FOR RESCUE SUPPORT SYSTEMS  |
|    | <b>1984</b> PARATECH INTRODUCES THE AIRGUN 40 PNEUMATIC IMPACT TOOL  |    | <b>2009</b> PARATECH EQUIPMENT DEPLOYED TO L'AQUILA, ITALY EARTHQUAKE  |
|    | <b>1985</b> U.S. NAVY PURCHASES 500 AIRGUN 40S FOR SHIPBOARD FIREFIGHTING  |    | <b>2010</b> PARATECH EQUIPMENT DEPLOYED TO HAITI EARTHQUAKE  |
|   | <b>1992</b> RESCUE STRUTS, THE FIRST SELF-LOCKING COLLAPSE SUPPORT SYSTEMS IN THE WORLD ARE INTRODUCED   |   | <b>2010</b> THE STRONGEST 'ALL IN ONE' VEHICLE STABILIZER, THE TVS, (TWISTLOCK VEHICLE STABILIZER) IS INTRODUCED             |
|  | <b>1993</b> FIRST VEHICLE STABILIZATION (VSK) KIT CREATED  |  | <b>2012</b> ABSOLUTE RAKER—FIRST ALL MECHANICAL RAKER SHORE INTRODUCED   |
|  | <b>1994</b> NORTHRIDGE, CA EARTHQUAKE: LOS ANGELES CITY & COUNTY RESCUE TEAMS USE MAXIFORCE® LIFTING BAGS, RESCUE STRUTS, PRT KITS AND PRY-AXES FOR RESCUE |  | <b>2013</b> HYDRAULIC-FUSION-STRUT (HFS) PARATECH'S FIRST HYDRAULIC RESCUE STRUT UNVEILED                                    |
|  | <b>1995</b> KOBE, JAPAN EARTHQUAKE: MAXIFORCE® LIFTING BAGS, RESCUE STRUTS, PRT KITS AND PRY-AXES USED FOR RESCUE  |  | <b>2014</b> DAMAGE CONTROL SYSTEMS (DCS) PARATECH DCS INSTALLED ON SWEDISH NAVY SHIPS  |
|  | <b>1998</b> PARATECH ACHIEVES ISO 9001 CERTIFICATION   |  | <b>2014</b> PARATECH INTRODUCES MAXIFORCE® G2 AIR LIFTING BAGS   |
|  | <b>1999</b> ISTANBUL, TURKEY EARTHQUAKE: RESCUE STRUTS & MAXIFORCE® LIFTING BAGS BECOME A VITAL PART OF EARTHQUAKE PREPAREDNESS                            |  | <b>2014</b> THE TITAN CRASH AXE IS CREATED BY PARATECH, WITH INPUT FROM THE AIR FORCE'S PARARESCUEMEN                        |
|  | <b>2000</b> LONGSHORE STRUTS DESIGNED & DEVELOPED FOR HIGH ANGLE COLLAPSE RESCUE   |  | <b>2015</b> THE MULTIFORCE® AIR LIFTING BAG IS INTRODUCED  |
|  | <b>2002</b> THE BUSTER TOOL IS DESIGNED TO MEET AND EXCEED FAA REGULATIONS FOR CRASH AXES  |  | <b>2016</b> THE VSK CONTROLLER IS INTRODUCED   |
|  | <b>2002</b> PARATECH EU IS ESTABLISHED IN DENMARK IN ORDER TO CREATE A STRONGER PRESENCE IN EUROPE   |  | <b>2016</b> MULTIFORCE POSITIONING LIGHTS ARE INTRODUCED   |
|  | <b>2003</b> PARATECH RESCUE SUPPORT SYSTEMS ARE ADAPTED BY FEMA AS A STANDARD  |  | <b>2017</b> THE ACMETHREAD STRUT DRIVER RETRO FIT KIT IS INTRODUCED  |
|  |  |  | <b>2018</b> PARATECH INTRODUCES THE ACMETHREAD STRUT DRIVER  |
|  |  |   | <b>2019</b> THE G3 DEADMAN CONTROLLERS AND VENTED COUPLINGS ARE INTRODUCED   |
|  |  |   | <b>2020</b> G3 PRESET REGULATOR INTRODUCED   |
|  |  |   | <b>2022</b> RESCUE GUARDIAN IS INTRODUCED  |

# PARATECH

For more than 50 years, Paratech has been combining innovative design with cutting edge technology to provide the highest quality and most user-friendly tools available for rescue and beyond. From the world's most advanced collapse support solutions to some of the world's strongest forcible entry tools, Paratech makes technical rescue operations simpler, safer and more productive.

Our product lines are comprised of Rescue Support Systems, MAXIFORCE<sup>®</sup> Air Lifting Bags, The MULTIFORCE<sup>®</sup> Air Lifting Bag, Powered Impact Tools, Forcible Entry Tools, Rescue Air Cushions, and the ultimate collection of essential Paratech products...the SMT<sup>™</sup>... Special Mission Tender equipped specifically for either urban search and rescue or trench rescue, both are loaded with all of the necessary Paratech tools needed for technical rescue.

Paratech products are extensively used by fire departments worldwide including, but not limited to: all major U.S. cities, Copenhagen, Tokyo, London, Lyon, Madrid, Singapore and Istanbul. In addition, they have been selected by disaster agencies in the United States, Denmark, Japan, United Kingdom and Turkey as the standard for their rescue teams and technical rescue caches.



# DamageControl Systems

## Damage Control System (DCS)

### Direct Compression



I-Type, can be used vertically or horizontally and is the simplest and strongest as it is parallel to the load axis (see table).

### Cross-Axial



H-Type, can be used vertically or horizontally and takes moderate pressure (see table) as the pressure acts perpendicular to the load axis.

### Triangulation



K-Type, can be used vertically or horizontally and takes full pressure (see table) as the pressure acts parallel to the load axis.

The most important factor you get with Paratech's DCS is time! With incoming water comes increasing depth and with that, higher water pressure...one of the most unforgiving vicious cycles has begun. To break the cycle you need time...time to build shoring that can slow the incoming water enough for the pumps to keep up... The Paratech Damage Control System will provide that break.

The Paratech Damage Control System (DCS) brings maritime damage control shoring into the 21st century. Speed, strength, flexibility and capability are the hallmarks of Paratech's DCS. Everything about the system has been engineered to simplify the difficult task Damage Control Teams have to face in the harsh and often dangerous working environments they have to perform in. With the Paratech DCS you will achieve setup speeds never seen with any wood-based system. A standard K brace can be set and fitted within one minute by an experienced team. The system is very logical and user-friendly for unexperienced crew members as well. All components of Paratech's DCS are machined from aircraft grade aluminum for superior strength and hard-coat anodized for maximum salt-spray protection. Designed to last and perform, the DCS makes damage control shoring faster, safer and easier than ever before.

### Shoring

Placing support against, beneath or above the damaged areas and preventing additional sagging, bulging and metal fatigue.

| Length | Axial load 2:1 |       |       |
|--------|----------------|-------|-------|
|        | Feet           | cm    | lb    |
| 1'     | 30.5           | 44000 | 20000 |
| 2'     | 61.0           | 44000 | 20000 |
| 3'     | 91.4           | 44000 | 20000 |
| 4'     | 121.9          | 44000 | 20000 |
| 5'     | 152.4          | 44000 | 20000 |
| 6'     | 182.9          | 44000 | 20000 |
| 7'     | 213.4          | 44000 | 20000 |
| 8'     | 243.8          | 40000 | 18000 |
| 9'     | 274.3          | 32000 | 14500 |
| 10'    | 304.8          | 24000 | 11000 |
| 11'    | 335.3          | 20000 | 9000  |
| 12'    | 365.8          | 16000 | 7250  |
| 13'    | 396.2          | 14000 | 6250  |
| 14'    | 426.7          | 12000 | 5500  |
| 15'    | 457.2          | 9000  | 4000  |
| 16'    | 487.7          | 6000  | 2750  |

## Damage Control Kit-A

### 22-79800AK

The Damage Control Kit-A is designed for vessels larger than 260ft (80m), such as Frigates, Corvettes, Cruise ships and Tankers. \*Multiple kits should be positioned.

Consisting of:

| Qty | Part No.  | Description                             |
|-----|-----------|---|
| 4   | 22-798S03 | Damage Control Shore 03                 |
| 4   | 22-798S06 | Damage Control Shore 06                 |
| 4   | 22-798S10 | Damage Control Shore 10                 |
| 6   | 22-798B01 | Damage Control Brace 01                 |
| 3   | 22-798X01 | Damage Control Extension 01             |
| 3   | 22-798X02 | Damage Control Extension 02             |
| 2   | 22-798X04 | Damage Control Extension 04             |
| 12  | 22-798E00 | Damage Control Rubber End               |
| 2   | 22-798E02 | Damage Control Rail End 02              |
| 1   | 22-798E04 | Damage Control Rail End 04              |
| 1   | 22-798E06 | Damage Control Angled End               |
| 8   | 22-798E08 | Damage Control Rubber Corner End        |
| 2   | 22-798E10 | Damage Control Rubbered Angled End      |
| 16  | 22-798C10 | Damage Control Latch Connector          |
| 12  | 22-798C20 | Damage Control Clamp & Clevis Connector |
| 10  | 22-798A00 | Damage Control Rubber Pad               |
| 4   | 22-796689 | Latch Holder                            |
| 4   | 22-798027 | Damage Control Spanner                  |

| # Of Decks | Qty Of Kit-A |
|------------|--------------|
| 6          | 3            |
| 10         | 4            |
| 12         | 4            |
| 14         | 6            |
| 16         | 8            |



## Damage Control Kit-B

### 22-79800BK

The Damage Control Kit-B is designed for vessels between 165ft (50m) and 260ft (80m), such as Minesweepers, Workboats and small Ferries. \*Multiple kits should be positioned.

| Qty | Part No.  | Description                             |
|-----|-----------|---|
| 2   | 22-798S03 | Damage Control Shore 03                 |
| 2   | 22-798S06 | Damage Control Shore 06                 |
| 2   | 22-798S10 | Damage Control Shore 10                 |
| 2   | 22-798X01 | Damage Control Extension 01             |
| 2   | 22-798X02 | Damage Control Extension 02             |
| 1   | 22-798X04 | Damage Control Extension 04             |
| 4   | 22-798B01 | Damage Control Brace 01                 |
| 10  | 22-798E00 | Damage Control Rubber End               |
| 1   | 22-798E02 | Damage Control Rail End 02              |
| 1   | 22-798E04 | Damage Control Rail End 04              |
| 1   | 22-798E06 | Damage Control Angled End               |
| 5   | 22-798E08 | Damage Control Rubber Corner End        |
| 1   | 22-798E10 | Damage Control Rubber Angled End        |
| 12  | 22-798C10 | Damage Control Latch Connector          |
| 8   | 22-798C20 | Damage Control Clamp & Clevis Connector |
| 3   | 22-796689 | Latch Holder                            |
| 2   | 22-798027 | Damage Control Spanner                  |
| 7   | 22-798A00 | Damage Control Rubber Pad               |

| # Of Decks | Qty Of Kit-B |
|------------|--------------|
| 2          | 2            |
| 6          | 3            |
| 10         | 4            |



# DamageControl Systems

## Damage Control Kit-C

### 22-79800CK

The Damage Control Kit-C is designed for vessels between 100ft (30m) and 200ft (60m), such as Patrol vessels and smaller Workboats. Multiple kits should be positioned.

| # Of Decks | Qty Of Kit-C |
|------------|--------------|
| 2          | 1            |
| 6          | 2            |
| 10         | 3            |

| Qty | Part No.  | Description                             |
|-----|-----------|---|
| 2   | 22-798S03 | Damage Control Shore 03                 |
| 2   | 22-798S06 | Damage Control Shore 06                 |
| 1   | 22-798S10 | Damage Control Shore 10                 |
| 2   | 22-798X01 | Damage Control Extension 01             |
| 1   | 22-798X02 | Damage Control Extension 02             |
| 1   | 22-798X04 | Damage Control Extension 04             |
| 3   | 22-798B01 | Damage Control Brace 01                 |
| 6   | 22-798E00 | Damage Control Rubber End               |
| 1   | 22-798E02 | Damage Control Rail End 02              |
| 1   | 22-798E04 | Damage Control Rail End 04              |
| 1   | 22-798E06 | Damage Control Angled End               |
| 2   | 22-798E08 | Damage Control Rubber Corner End        |
| 1   | 22-798E10 | Damage Control Rubber Angled End        |
| 9   | 22-798C10 | Damage Control Latch Connector          |
| 5   | 22-798C20 | Damage Control Clamp & Clevis Connector |
| 3   | 22-796689 | Latch Holder                            |
| 2   | 22-798027 | Damage Control Spanner                  |
| 7   | 22-798A00 | Damage Control Rubber Pad               |



## Damage Control Kit-D

### 22-79800DK

The Damage Control Kit-D is designed for smaller vessels under 100ft (30m).

| # Of Decks | Qty Of Kit-D |
|------------|--------------|
| 2          | 1            |
| 6          | 2            |

| Qty | Part No.  | Description                             |
|-----|-----------|---|
| 2   | 22-798S03 | Damage Control Shore 03                 |
| 1   | 22-798S10 | Damage Control Shore 10                 |
| 1   | 22-798B01 | Damage Control Brace 01                 |
| 3   | 22-798E00 | Damage Control Rubber End               |
| 1   | 22-798E02 | Damage Control Rail End 02              |
| 2   | 22-798E08 | Damage Control Rubber Corner End        |
| 3   | 22-798C10 | Damage Control Latch Connector          |
| 3   | 22-798C20 | Damage Control Clamp & Clevis Connector |
| 1   | 22-798027 | Damage Control Spanner                  |
| 4   | 22-798A00 | Damage Control Rubber Pad               |



## Damage Control Shores

Damage Control Shores offer the end user the ability to manually extend the shore to desired length. The Damage Control Shore always defaults to a locked position.



| Part No.  | Description             | Length: in/cm        | Net Weight: lb kg |      | Ship Weight: lb kg |      |
|-----------|-------------------------|----------------------|-------------------|------|--------------------|------|
| 22-798S03 | Damage Control Shore 03 | 25-36 in/66-91 cm    | 13.7              | 6.2  | 14.7               | 6.7  |
| 22-798S06 | Damage Control Shore 06 | 47-73 in/122-185 cm  | 26.0              | 11.8 | 27.0               | 12.3 |
| 22-798S10 | Damage Control Shore 10 | 71-116 in/183-295 cm | 39.3              | 17.8 | 40.3               | 18.3 |

## Damage Control Extension

Paratech offers Damage Control Extensions in three sizes: 12" / 30.5 cm, 24" / 61 cm and 48" / 122 cm. Extensions are attached to the solid end of the shore.



| Part No.  | Description                 | Length: in/cm | Net Weight: lb kg |     | Ship Weight: lb kg |     |
|-----------|-----------------------------|---------------|-------------------|-----|--------------------|-----|
| 22-798X01 | Damage Control Extension 01 | 12 in/30.5 cm | 6.3               | 2.9 | 7.3                | 3.3 |
| 22-798X02 | Damage Control Extension 02 | 24 in/61 cm   | 9.4               | 4.3 | 10.4               | 4.8 |
| 22-798X04 | Damage Control Extension 04 | 48 in/122 cm  | 15.4              | 7.0 | 16.4               | 7.4 |

## Damage Control Brace

Greatly extend the flexibility and strength of your Paratech Damage Control System with a heavy duty brace



| Part No.  | Description          | Length: in/cm | Net Weight: lb kg |     | Ship Weight: lb kg |     |
|-----------|----------------------|---------------|-------------------|-----|--------------------|-----|
| 22-798B01 | Damage Control Brace | 26 in/66 cm   | 15.0              | 6.8 | 16.0               | 7.3 |

## Damage Control Ends

6 different ends in the system offer the possibility of making a variety of shores for Damage Control. The 4" Paratech Damage Control End should always be in one end of a shore used when flex in the hull is predicted.



| Part No.  | Description                        | Length: in/cm      | Net Weight: lb kg |     | Ship Weight: lb kg |     |
|-----------|------------------------------------|--------------------|-------------------|-----|--------------------|-----|
| 22-798E00 | Damage Control Rubber End          | 4 in / 10.2 cm     | 1.9               | .9  | 2.2                | 1.0 |
| 22-798E02 | Damage Control Rail End 02         | 24 in / 61 cm      | 6.8               | 3.1 | 7.3                | 3.3 |
| 22-798E04 | Damage Control Rail End 04         | 48 in / 122 cm     | 13.8              | 6.3 | 14.5               | 6.6 |
| 22-798E06 | Damage Control Angled End          | 7.6 in / 19.3 cm   | 2.9               | 1.3 | 3.2                | 1.6 |
| 22-798E08 | Damage Control Rubber Corner End   | 6.81 in / 17.30 cm | 6.3               | 2.8 | 6.3                | 2.8 |
| 22-798E10 | Damage Control Rubbered Angled End | 9.25 in / 23.50 cm | 5.4               | 2.4 | 5.7                | 2.6 |

## Damage Control Connectors

| Part No.  | Description                             | Net Weight: lb kg |     | Ship Weight: lb kg |     |
|-----------|---|-------------------|-----|--------------------|-----|
| 22-798C10 | Damage Control Latch Connector          | 3.2               | 1.5 | 3.5                | 1.6 |
| 22-798C20 | Damage Control Clamp & Clevis Connector | 6.6               | 3.0 | 6.9                | 3.1 |



## Damage Control Accessories

| Part No.  | Description               | Length: in/cm     | Net Weight: lb kg |     | Ship Weight: lb kg |     |
|-----------|---------------------------|-------------------|-------------------|-----|--------------------|-----|
| 22-798A00 | Damage Control Rubber Pad | 6.75 in/17.12 cm  | .96               | .45 | .99                | .45 |
| 22-796689 | Latch Holder              | 15.0 in/38.1 cm   | 4.1               | 1.9 | 4.6                | 2.1 |
| 22-798027 | Damage Control Spanner    | 13.23 in/33.60 cm | .55               | .25 | .58                | .26 |



Available in five languages.



CERTIFICATE NO.  
ISO9001:2008

**We take our job  
seriously because  
we know your job  
is often a matter  
of life or death.**



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